

Product datasheet for **RC239902**

DNA helicase HEL308 (HELQ) (NM_001297755) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DNA helicase HEL308 (HELQ) (NM_001297755) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DNA helicase HEL308
Synonyms:	HEL308
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC239902 representing NM_001297755 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGGATGAATGTGGTTCCCGCATCCGCCGGCGGGTGTCTCTCCCCAAAGGAACCGTCCAAGCTTGGGGT
GTATTTTGGCGCTCCACCGCGCCGAGCTCGAGCCCGGAGATGAGGGGAAAGAGGAGGAGAAATGGT
GGCTGAGAACAGGAGGCGGAAAACCGGGCGTACTGCCGGTTGAGGTACAGCCCTTCTACTCTCAGAT
TCCCCGAATGTCTCGTCTTGGAGGTGGTGATACAAACCGGACCTCCTACGTACATGCCACTGACA
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CTCCTTTATAGCTCAAGTTGACGACCTGGAACAAAAATATATGCAACTCCCTGAACATAAGAAACATGCT
ACAGACTTTGCCACTGAAAACTTTGCTCGGAAAGTATCAAAAACAACTCAGCATTACTACCATAGGCA
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ACCCTAAAAAGATGGATCCTGATCACTTGGTAGCATTGGTGACAGAAGTTATCCCAATTATTCCTGCT
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC239902 representing NM_001297755

Red=Cloning site Green=Tags(s)

MDECGSRIRRRVSLPKRNRPSLGCIFGAPTAEELEPGDEGKEEEEEMVAENRRRKTAGVLPVEVQPLLLSD
SPECLVLGGDTNPDLRLHMPDTRGVGDQPNDSVDMFGDYDSFTENSFIAQVDDLEQKYMQLPEHKKHA
TDFATENLCSESIKNKLSITTIIGNLTELQTDKHTENQSGYEGVTIEPGADLLYDVPSSQAIYFENLQNSS
NDLGDHSMKERDWSSSHNTVNEELPHNCIEQPQNDSSSKVRTSSDMNRRKSIKDHKNAMTGNAAQ
TPIFSRSKQLKDTLLSEEINVAKKTVESSNDLGPYSLPSKVRDLAQAQFKGIEKLYEWQHTCLTLNSVQ
ERKNLIYSLPTSGGKTLVAEILMLQELLCCRKDVLMILPYVAIVQEKLHMIGEGSRGATLEMTLAKILYT
SKTTQIIIGMSATLNNVEDLQKFLQAEYYTSQFRPVELKEYLKINDTIYEVDKAENGMTFSRLNLYKYS
TLKKMDPDHLVALVTEVIPNYSCLVFCPSKKNCEVAEMICKFLSKEYLKHKEKEKCEVIKNLKNIGNGN
LCPVLKRTIPFGVAYHHSGLTSDERKLLLEEAYSTGVLCFTCTSTLAAGVNLPAARRVILRAPYVAKEFLK
RNQYKQMIAGRAGIDTIGESILILQEKKQVLELITKPLENCYSHLVQEFKGIQTFLSLIGLKIA
TNLDDIYHFMNGTFFGVQKVLLEKSLWEITVESLRYL TEKGLLQKDTIYKSEEEVQYNFHIKTLGRAS
FKGTIDLAYCDILYRDLKKGLEGLVLESLLHLIYLTPYDLVSQCNPDWMIYFRQFSQLSPAEQNVAAIL
GVSEFVIGKKASQAIGKKVDKNVNRLLYLSFVLYTLKETNIWTVSEKFNMPRGYIQNLLTGTSFSSC
VLHFCHEELFVWYRALLVELTKKLTVCVKAELIPLMEVTGVLEGRAKQLYSAGYKSLMHLANANPEVLV
RTIDHLSRRQAKQIVSSAKMLLHEKAEALQEEVEELLRLPSDFPGAVASSTDKA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001297755

ORF Size: 3102 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

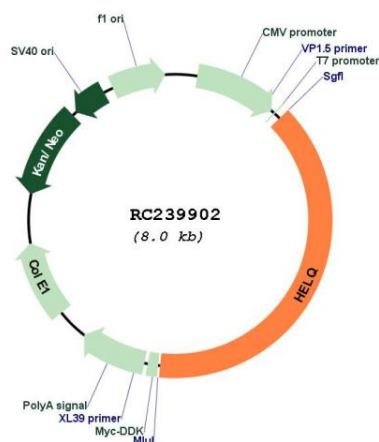
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001297755.1](#), [NP_001284684.1](#)

RefSeq Size: 3422 bp

RefSeq ORF:	3105 bp
Locus ID:	113510
Cytogenetics:	4q21.23
MW:	117.3 kDa
Gene Summary:	HEL308 is a single-stranded DNA-dependent ATPase and DNA helicase (Marini and Wood, 2002 [PubMed 11751861]).[supplied by OMIM, Mar 2008]

Product images:



Circular map for RC239902